

Luminometric determination of mutagenic or carcinogenic activity

Luminometric determination of mutagenic or carcinogenic activity

Patent Number: DE19549417

Publication

date: 1997-06-05

Inventor(s): KOZUBECK STANISLAV DR (CZ); RETTBERG PETRA DR (DE); HORNECK GERDA DR (DE); KRASAVIN EUGENE PROF DR (RU); PTICYN LEONID R (RU); KOMOVA OLGA V DR (RU)

Applicant(s): DLR DEUTSCHE FORSCHUNGSAINSTALT (DE)

Requested

Patent:  DE19549417

Application

Number: DE19951049417 19951129

Priority

Number(s): DE19951049417 19951129; DE19951044374 19951129

IPC

Classification: C12Q1/02

EC

Classification: C12N15/70

EC

Classification: C12N15/70

Equivalents:

Abstract

Luminometric determination of the mutagenic and/or carcinogenic (or more generally genotoxic) power of a test sample (and/or of an active agent in the sample) uses a microorganism having an SOS system and involves measuring bioluminescence induced by nucleic acid-damaging agents (A) in the sample through induction of SOS system. The microorganisms used are transformed with a plasmid containing the lux operon of a photobacterium which is activated, under control of the SOS system, by interaction with (A). The genes of the operon are thus expressed and their expression products generate bioluminescence.

Data supplied from the esp@cenet database - I2